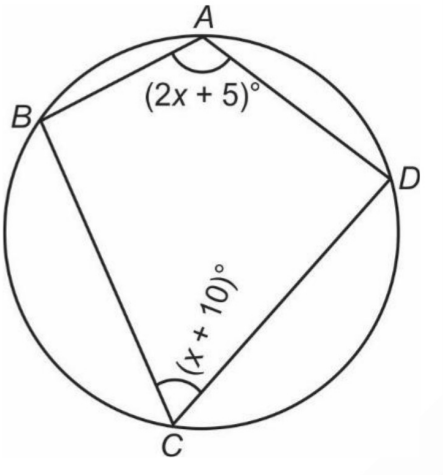
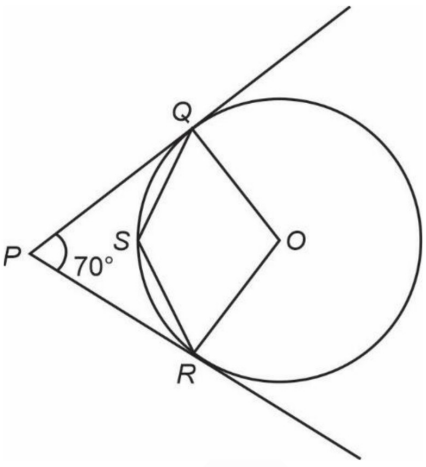
1. $ABCD$ is a cyclic quadrilateral. If $\angle BAD = (2x + 5)^\circ$ and $\angle BCD = (x + 10)^\circ$ then x is equal to:



   (a) 65°
   (b) 45°
   (c) 55°
   (d) 5°

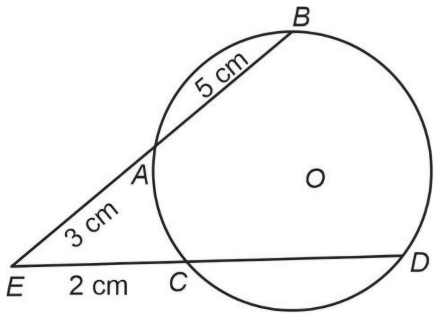
2. In the given figure O is the centre of the circle. PQ and PR are tangents and $\angle QPR = 70^\circ$. Calculate:



(a) $\angle QOR$

(b) $\angle QSR$

3. Two chords AB and CD of a circle intersect extenally at E. if $EC = 2cm$, $EA = 3cm$ and $AB = 5cm$, find the length of CD.



4. In the given figure A, B, C and D are points on the circle with centre O. Given $\angle ABS = 62°$. Find:

(a) $\angle ADC$

(b) $\angle CAB$